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COTTON LITERATURE

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CONTENTS

Production.....	13
Botany.....	13
Genetics.....	13
Agronomy.....	14
Diseases.....	16
Insects.....	16
Farm Social Problems.....	16
Cooperation in Production.....	17
Preparation.....	17
Ginning.....	17
Baling.....	18
Marketing.....	18
Demand and Competition.....	18
Supply and Movement.....	21
Prices.....	22
Marketing and Handling Methods and Practices..	23
Services and Facilities.....	23
Cooperation in Marketing.....	23
Utilization.....	23
Fiber, Yarn, and Frabric Quality.....	23
Technology of Manufacture.....	25
Technology of Consumption.....	30
Seed and Seed Products.....	30
Legislation, Regulations, and Adjudication.....	32
Miscellaneous - General.....	32

COTTON LITERATURE is compiled mainly from material received in the Library of the U. S. Department of Agriculture.

Copies of the publications listed herein can not be supplied by the Department except in the case of publications expressly designated as issued by the U. S. Department of Agriculture. Books, pamphlets, and periodicals mentioned may ordinarily be obtained from their respective publishers or from the Secretary of the issuing organization. Many of them are available for consultation in public or other libraries.

PRODUCTIONBotany

Busse, Warren F., and Burnham, C. R. Some effects of low temperatures on seeds. Botanical Gazette, v.90, no.4, Dec. 1930, p.399-411. illus. (Published at Chicago, Ill.)

Contr. Dept. Phys. Chem. Univ. Wisconsin & Dept. Gen. Agr. Exp. Stat. Univ. Wisconsin Paper no.111 Dept. Genet.

Literature cited: p.411.

Cotton and flax.

Gulati, A. N. A note on the differentiation of hairs from the epidermis of cotton seeds. Agricultural Journal of India, v. 25, no. 4, July 1930, [Rec'd Jan. 1931] p.313-316. illus. (Published by Government of India, Central Publication Branch, Imperial Secretariat Building, 3, Government Place, W., Calcutta, India.)

Meyer, Bernard S. Effects of mineral salts upon the transpiration and water requirement of the cotton plant. American Journal of Botany, v.18, Jan. 1931, p.79-93. (Published by Brooklyn Botanic Garden, Brooklyn, N. Y.)

Paper Dept. Bot., Ohio State Univ. no. 253.

Literature cited: p.92-93.

Rea, Homer Elmer. Callusing of cotton stem cuttings. Plant Physiology, v.5, no.4, Oct.1930, p.575-586. illus. (Published by American Society of Plant Physiologists, Lime and Green Streets, Lancaster, Pa.)

Literature cited: p.584-585.

Genetics

Barbados. Department of Agriculture. Report for the year 1929-30. [Bridgetown] 1930, 118 p.

Report of the geneticist on cotton: p.48-52.

Brabham, H. K., and Hale, G. A. Cotton variety tests, 1930. Experiment, Ga., 1930. 4p. (Ga. Agr. Exp. Sta. Circ. 90).

Fiji Islands. Department of agriculture. Annual report for the year 1929. Suva, 1930, 20p.
Cotton experiments: p.12-18.

India. Punjab. Department of agriculture. Report for the year ending 30th June 1929. Part II. Vol. II. Annual report of experimental work. Lahore, 1930. 46lp.

Includes reports on experimental work with cotton.

Kieffer, D. L. Registered cotton seed. Pacific Rural Press, v.121, no.1, Jan.3, 1931, p.13. (Published at San Francisco, Calif.)

New cotton variety [U 4]. Resistance to pests. Cyprus Agricultural Journal, v.25, no.4, Oct.1930, p.144. (Published at Nicosia, Cyprus).

Abstracted from The Times, trade and engineering supplement, June 21, 1930. (London)

Queensland. Department of agriculture and stock. Annual report for the year 1929-30. Brisbane, 1930, 244p.

Report of cotton specialists: p.44-48.

Quinby, J. R., and Stephens, J. C. Percentage of lint in distributed plats of cotton varieties. American Society of Agronomy. Journal, v.23, no.1, Jan. 1931, p.67-69. (Published at Geneva, N. Y.)

Agronomy

Balls, W. L. Developments of the existing system for seed supply of cotton in Egypt. Cairo, 1930, 11 p. illus. (Egypt. Min. Agr. Tech. and Sci. Serv. Bul. 100).

"The present arrangements for cotton seed supply in Egypt...are essentially sound, but they are still fragmentary. It is very desirable that they should be co-ordinated and extended into a complete system which should take the simplest possible shape... The practical suggestion made in this Bulletin is that such simplification is most easily attained by making each year of propagation take place under a separate 'Contract'."

Balls, W. L. Growth fluctuations during the development of seed-cotton. Cairo, 1930. 11p. illus. (Egypt. Min. Agr. Tech. and Sci. Serv. Bul. 101.)

- Bluen, Louis. Cotton growing under irrigation in the Sudan. The Empire Cotton Growing Review. v.8, no.1, Jan.1931, p.1-9. illus. (Published by P. S. King & Son, Ltd., 14, Great Smith St., London, S.W. 1, England.)
- Crawford, H. E. Potash and quality cotton. Better Crops with Plant Food, v.16, no.1, Jan. 1931, p. 48-49. (Published at 19 West 44th St. New York City.)
- Hale, G. A. Cotton fertilizer experiments, 1930. Experiment, Ga., 1930. 4p. (Ga. Agr. Exp. Sta. Circ. 91.)
- Hale, G. A. Georgia tests show value of limestone in cotton fertilizer. Fertilizer Green Book, v.12, no.1, Jan. 1931, p.21-23. illus. (Published at Chicago, Ill.)
- Poor soil hits cotton knock-out blow. Oklahoma Farmer-Stockman, Nov. 15, 1930, p.802, chart. (Published at Oklahoma City, Okla.)
- "In the last 25 years the average yield of lint cotton in Oklahoma has dropped exactly 100 pounds to the acre." The reason given is that the fertile top soil has washed away.
- Skinner, J. J. Influence of potash sources and chlorine content of fertilizers on yield of cotton. American Society of Agronomy, Journal, v.23, no.1, Jan. 1931, p.13-21. (Published at Geneva, N. Y.)
- Trought, T. Sowing date experiments with Punjab-American cottons at Lyallpur, 1926-29. Agricultural Journal of India, v.25, no.4, July, 1930, [Rec'd Jan. 1931] p.297-305. (Published by Government of India, Central Publication Branch, Imperial Secretariat Building, 3, Government Place. W., Calcutta, India.)
- Wakefield, A. J. Cotton experiments in Tanganyika territory under riverine conditions. The Empire Cotton Growing Review, v.8, no.1, Jan. 1931, p.16-22. (Published by P. S. King & Son, Ltd., 14, Great Smith St., London, S.W.1, England.)

Diseases

Husian, M. A. Leaf-curl in cotton. (Letter) Nature, v. 126, no.3190, Dec. 1930, p.958. (Published by MacMillan & Co., ltd., St. Martins Street, London W.C.2, England.)

Cause not determined.

Insects

Egypt. Ministry of agriculture. Cotton research board. 7th report 1928. Cairo, 1930.

Investigations on cotton insects: p.45-48.

Prodenia Litura satisfactorily controlled with calcium arsenate. Pink bollworm infestation reduced 20-30 per cent with calcium arsenate, 40-50 per cent with sodium fluosilicate. Work of hot air machine for treating cotton seeds satisfactory against pink bollworm. (See Rev. Appl. Ent. A 18:12, 672-3, Dec. 1930).

Kirkpatrick, T. W. Preliminary note on leaf-crinkle of cotton in the Gezira area, Sudan. Bulletin of Entomological Research, v.21, pt. 2, July, 1930, p.127-137. 5 refs. (Published in London, England.)

Paoli, G. Notizie sull'arriciamento del conone nella Somalia italiana. Rome, 1930. 15p. 18 refs.

Reprint from Rassegna econ. Colonie, 1930, no.3-4.

Notes on leaf-crinkling in cotton in Somaliland.

Crinkling appears to occur only in the presence of the jassid Empoasca fascialis, Jac., due to effect of its saliva and not to transmission of a virus capable of development after inoculation. Author thinks it partially controlled by a mymarid parasite Anagrus scassellatii, Paoli that attacks the eggs of Empoasca fascialis. (See Rev. Appl. Ent. A. 18:12, 659, Dec. 1930)

Tavares, H. A. A broca do algodao. Sociedade Rural Brasileira. Revista, v.10, no.126, Nov. 1930, p.1336. illus. (Published at Sao Paulo, Brazil).

Farm Social Problems

Ousley, Clarence. Farmers must solve their own problems. Cotton and Cotton Oil News, v.32, no.2, Jan. 10, 1931, p.11-12. (Published at 3116-3118 Commerce Street, Dallas, Texas)

The author comments on "the social cost of cotton."

Cooperation in Production.

Bryant, M. H. Farmers have gin days. Agricultural Leaders' Digest, v.12, no.1, Jan. 1931, p.43. (Published by the American Farming Publishing Company, 537 South Dearborn Street, Chicago, Ill.)

Farmers near Jasper, Ala., plan to use pure seed for planting.

Fostering single variety gin areas. Katy railway begins move expected to improve quality of lint. Cotton and Cotton Oil News, v.32, no.2, Jan. 10, 1931, p.7. (Published at 3116-3118 Commerce St., Dallas, Texas.)

The Agricultural Development Department of the Katy Railway plans to follow the advice of Mr. O. F. Cook of the U. S. Department of Agriculture.

Henderson, C. O. All unite on one kind of cotton. Agricultural Leaders' Digest, v.12, no.1, Jan. 1931, p.42-43. illus. (Published by the American Farming Publishing Company, 537 South Dearborn Street, Chicago, Ill.)

"The farmers of Madden consolidated school district, Leake county, Mississippi," plan to use pure seed.

PREPARATION

Ginning.

Belew, C. T. Broadening labor lien to enable ginners to collect ginning advocated by Texas ginner. Cotton Ginners' Journal, v. 2, no. 4, Jan. 1931, p. 12. (Published at Dallas, Texas.)

Killough, D. T., and McNess, G. T. Methods of ginning in relation to the grade and staple of cotton. College Station, Tex., 1930. 32p. (Tex. Agr. Exp. Sta. Bil. 416.)

Reprinted in American Ginner and Cotton Oil Miller, v.8, no.5, Jan. 1931, p.7-9. illus. (Published at Little Rock, Ark.)

"The results of these experiments show, in general, that a saw speed of 760 revolutions per minute, used together with the loose breast-roll and the standard air-line cleaner, provide the most favorable conditions for ginning cotton on the air-blast type of gin used."

Smith, Howard C. Seventh annual convention of Alabama ginner's association. The Oil Miller and Cotton Ginner, v.37, no.5, Jan. 1931, p.9-10. (Published by The Oil Miller Publishing Company, 161 Spring St., N.W., Atlanta, Ga.)

Convention held at Birmingham, Ala. Jan.8, 1931.

Wall, C. L., Jr. Causes of fires in gins are divided into two classes---common and special hazards. Three fundamentals of fire prevention should be understood before effort is made to combat ever present menace of fire in any plant, declares safety engineer in treating the subject---more interest in fire prevention is suggested. Cotton Ginners' Journal, v.2, no.4, Jan. 1931, p.8, 19-20. (Published at Dallas, Texas.)

Baling

Complaint on rolling bales reaching Texas compresses is made by compress officials. Letter from Waco man sent to Texas-Oklahoma compress association at Dallas is mailed without comment to the Cotton ginners' journal---Compress company head at Corpus Christi verifies condition as existing in his section. Cotton Ginners' Journal, v.2, no.4, Jan. 1931, p. 13. (Published at Dallas, Texas.)

MARKETING

Demand and Competition

Bresciani-Turroni, C. Über die elastizität des ver-
brauchs ägyptischer baumwolle. Weltwirtschaft-
liches Archiv, v.33, no.1, Jan. 1931, p.46-86.
illus. (Published at Jena, Germany.)

Concerning the elasticity of consumption of Egyptian cotton.

Canney, E. E. Monetary policy and the cotton industry. Textile Institute Journal, v.21, no.11, Nov. 1930, p.P168-P170. (Published at 16 St. Mary's Parsonage, Manchester, England.)

Report of a paper presented at a meeting of the Lancashire section of the Textile Institute at Burnley, Oct. 21, 1930.

Field, E. G. Out of the depression. An analysis of Government figures which discloses interesting facts for use in anticipating conditions in 1931. Cotton, v.95, no.3, Jan. 1931, p.216-217. charts. (Published by W. R. C. Smith Publishing Co., Atlanta, Ga.)

Charts show comparative cotton mill capacity operated in depression periods 1924 and 1930 for the United States, and comparative spindle-hours run in the same periods for the United States and the cotton growing states.

The future of China's cotton spinning industry. Chinese Economic Bulletin, v.17, no.24, Dec. 13, 1930, p.300-302. (Published by the Bureau of Industrial and Commercial Information, Ministry of Industry, Commerce and Labor, National Government of the Republic of China, 4th floor, Customs Building, Hankow Road, Shanghai, China.)

"There are still immense possibilities for further development."

Greene, Wil. Poor year for cotton goods. Bags, v.2, no.10, Jan. 1931, p.12-13. (Published by the Atlas Publishing Company, Inc., 150 Lafayette Street, New York)

"Despite heroic curtailment measures adopted by manufacturers, market showed almost steady decline; firmer technical position at close of 1930; bag-makers cautious buyers throughout the year."

Greenhalgh, Frank. Organization in the cotton trade. Manchester, London and Blackburn, John Heywood Ltd., 1930. 40p.

Discusses the Report on the Cotton Industry of the Economic Advisory Committee of Great Britain and suggests a standard costing system.

Holleran, O. C. How the Callaway mills develop new uses and products. Cotton, v.95, no.3, Jan. 1931, p.213-215. illus. (Published by W. R. C. Smith Publishing Co., Atlanta, Ga.)

India. Bombay presidency. Labour office. Report on an inquiry into wages and hours of labour in the cotton mill industry 1926. Bombay, Central govt. press, 1930. 172p.

International aspect of competition; price, quality and dumping. The Textile Weekly, v.6, no.147, Dec. 26, 1930, p.407 (Published at 49 Deansgate, Manchester, England.)

Discusses competition between Lancashire and Japan in cotton cloth.

The Japanese cotton industry in 1930. Commercial, v.22, no.550, January 1, 1931, p.5. (Published from the Guardian Building, Manchester, England)

Layton, Gilbert C. The world's principal textile trade. The cotton industry in England and Germany. The British Trade Review, v.75, no.449, Nov.1930, p.19-20. (Published at London, England.)

Nones, Hiram T. Textile imports of Union of South Africa important. Commerce Reports, no.1, Jan.5, 1931, p.33-35. (Published by U. S. Bureau of Foreign and Domestic Commerce, Washington, D. C.)
Tables show imports of principal classes of textiles into the Union of South Africa during 1929 by country of origin, and United States exports of cotton cloth, duck, and tire fabrics to the Union of South Africa. Types of cotton piece goods sold in South African market are described.

Oliver, T. Guthrie. What the wage fight in British cotton industry is all about. Textile World, v.79, no.3, Jan.17, 1931, p.239. (Published by Bragdon, Lord & Nagle Co., Inc., Tenth Ave. at 36th St., New York).

Orchard, John E., and Orchard, D. J. Japan's economic position. The progress of industrialization. New York, McGraw-Hill Book Co., 1930. 504p. illus.
"The textile industries, especially the cotton industries, are the major manufacturing industries of Japan."-p.261. The production of raw cotton in Japanese territory and cotton manufacture and trade are discussed.

Stewart, Sir Kenneth D. Lancashire cotton corporation--Progress of the past year. The Indian Textile Journal, v.41, no.482, Nov.1930, p.68-69. (Published by The Indian Textile Journal Limited, Military Square, Meadows Street, Fort, Bombay, India.)

Todd, John A. Cotton statistics. Consumption and stocks. The Empire Cotton Growing Review, v.8, no.1, Jan.1931, p.37-44. (Published by P.S.King & Son, Ltd., 14, Great Smith St., London, S.W.1, England.)

Weiss, M. W. Cotton or wood pulp? Considerations which determine the choice of raw materials in the production of artificial silks. Cellulose, v.1, no.10, Nov. 1930, p.251-252. (Published by The Cellulose Publishing Company, 114 East 32 Street, New York City.)

Reprinted from RUSSA and translated.

Westbrook, Francis A. Union-management cooperation at Naumkeag. Melliand Textile Monthly, v.2, no.10, Jan.1931, p.1298-1302. (Published by The Melliand, Inc., Woolworth Building, New York City)

"The labor union has approved scientific management and is co-operating in its application. The plan is working to the satisfaction of both management and employees."-Editor's note.

Supply and Movement.

Blair, R. E. California cotton. Calif. Dept. of Agriculture Monthly Bul., v.19, no.11, Nov. 1930, p.769-772. (Published at Sacramento, Calif.)

History and present status of cotton production in California.

Knapp, Bradford. Quality cotton. Agricultural Bulletin, winter, 1931, p.6-7. illus. (Published at 4 Hunter St., S.E., Atlanta, Ga.)

Milne, D. American cotton in the Punjab. The Empire Cotton Growing Review, v.8, no.1, Jan.1931, p.23-25. (Published by P.S.King & Son, Ltd., 14, Great Smith St., London, S.W.1, England.)

Reply to article by Mr. Roberts in The Empire Cotton Growing Review, July, 1930.

Ousley, Clarence. Cotton reduction is imperative for 1931. Southern Agriculturist, v.61, no.1, Jan.1931, p.7. (Pub. by Southern Agriculturist Co., 1523 Broad St., Nashville, Tenn.)

Reynolds, E. B. Yield of staple is more important. Farm and Ranch, v.50, no.4, Jan.24, 1931, p.19. (Published at 3306 Main Street, Dallas, Texas.)

Tavares, H. A. Sobre a safra algodoeira de 1930-1931. Revista de agricultura, v.5, no.11/12, Nov./Dec. 1930, p.524-527. (Published at Sao Paulo, Brazil).

Concerning the cotton harvest of 1930-1931.

Texas cotton grower confronted with fact that Eastern cotton belt improves quality. Uniform high quality of Egyptian cotton best example of value of planting only best of cottonseed, writer points ---cotton that comes to gins can be no better than seed customers plant---ginners asked to urge better seed. Cotton Ginners' Journal, v.2, no.4, Jan. 1931, p.9, 12. (Published at Dallas, Texas.)

Point buying is also discussed.

W., R. C. Cotton in Tanganyika. Tropical Agriculture, v.8, no.1, Jan. 1931, p.17-18. (Published at Trinidad, West Indies.)

Youngblood, B. Staple of American cotton can be improved. Southern Agriculturist, v.61, no.1, Jan. 1931, p.27. (Pub. by Southern Agriculturist Pub. Co., 1523 Broad St., Nashville, Tenn.)

Prices

Big decline in cotton prices. The Farm board's operations. Textile Weekly, v.6, no.148, Jan.2, 1931, p.433-439. (Published at 49 Deansgate, Manchester, England.)

Charts show fluctuations of Middling American and F.G.F. Sakellaridis during the years 1929-30.

Brown, C. H. Cotton price stabilization. The Empire Cotton Growing Review, v.8, no.1, Jan. 1931, p.30-33. (Published by P.S.King & Son, Ltd., 14, Great Smith St., London, S.W.1, England.)

Howell, L. D., and Fullilove, W. T. Farm prices of cotton related to quality. Georgia crop--1928-29. Experiment, Ga., 1930. 33p. charts. (Ga. Agr. Exp. Sta. Bul. 165).

"Average prices received by growers were higher in communities producing higher grades and longer staples than in communities producing lower grades and shorter staples."-p.32.

Stuttard, T. A. World's surplus of cotton. Temporary measure of today's price security. Textile Weekly, v.6, no.148, Jan.2, 1931, p.435. (Published at 49 Deansgate, Manchester, England.)

Comment on the price situation in Lancashire.

Ulm, Aaron Hardy. Low-price cotton. A long-time prospect, says Federal farm board. Textile World, v.79, no.1, Jan.3, 1931, p.34-35. (Published by Bragdon, Lord & Nagle Co., inc., Tenth Ave. at 36th St., New York City).

Comments on the report of the Federal Farm Board entitled "Outlook for American Cotton."

Marketing and Handling Methods and Practices

Kershaw, F. Cotton and its selection. Textile American, v.55, no.1, Jan. 1931, p.36-39. (Published at 440-442 Old South Building, Boston, Mass.)
Points to consider in buying raw cotton.

Services and Facilities.

New York commodity exchanges. The Cotton and Cotton Oil News, v.32, no.1, Jan.3, 1931, p.10. illus. (Published at Dallas, Texas.)
From the Grace Log for November-December.

Rotterdam cotton association. Report...presented at the annual general meeting of the members held Nov.14, 1930. [Rotterdam, 1930] 14p.

Cooperation in Marketing.

Manny, T. B. Farmers' experiences and opinions as factors influencing their cotton-marketing methods. Washington, D. C., 1931. 62p. (U.S. Dept. of agriculture. Circ. 144)
Particular attention is given to cooperative marketing.

UTILIZATION

Fiber, Yarn, and Fabric Quality.

Bayerl, V., and Roos, Kurt. Micellar structure in the light of recent investigations. Cellulose, v.1, no.10, Nov. 1930, p.261-263. (Published by the Cellulose Publishing Company, 114 East 32 Street, New York City.)
Translated by M. W. Weiss.

Gulati, A.N., and Turner, A.J. The foundations of yarn-strength and yarn-extension. Part IV - The influence of yarn-twist on the diameters of cotton yarns, and on the proportions of fibre-slippage and fibre-fracture in yarn-breakage. Textile Institute Journal, v.21, no.12, Dec. 1930, p.T561-T582. illus. (Published at 16 St. Mary's Parsonage, Manchester, England.)

"Measurements have been made of as many characters as possible, both of yarn and fibre, on six cottons chosen to cover a wide range of quality and species; the tests were made on specimens of yarn 3 inches long; each test-piece was given a certain twist; its breaking strength, its weight (counts), and the numbers of fibres breaking and slipping respectively at yarn-breakage were determined, and also the fibre-weight of the fibres constituting the yarn."-p.T562.

Hall, A. J. Cotton-cellulose--A special form of cellulose. Cellulose, v.1, no.7, Aug.1930, p.176-178,194. (Published at 114 East 32nd Street, New York, City.)

"A discussion on cotton fibres in relation to the reactivity of the cellulose of which they are composed."

Haven, Geo. B. Future textile laboratory practice. American Dyestuff Reporter, v.19, no.21, Dec.8. 1930, p.757-761, 782-785. illus. (Published at 440 Fourth Ave., New York City.)

"It is the object of this paper to suggest certain new avenues along which it is believed the future work of Committee D-13 will doubtless be directed...The following suggestions concern themselves not with the original fibers but with their manufactured forms in yarn and fabrics." The author describes experiments which he has made on the following: measurement of yarn balance; measurement of corkscrew; crimp determination; yarn slippage; fabric porosity, absorbability, bursting strength, precise thickness, abrasion, heat flow, resilience.

Also in the Melliand Textile Monthly, v.2, no.10, January, 1931, p.1319-1328. illus. (Published by the Melliand, Inc., Woolworth Building, New York City.)

Koshal, Ram Saran, and Turner, A. James. Studies in the sampling of cotton for the determination of fibre-properties. Part III. The size and reliability of a satisfactory sample. Bombay, India, 1930. 39p. (Indian Central Cotton Committee. Technological Laboratory. Technological Bul. Ser. B, no.10).

Navkal, Harirao, and Turner, A. J. The foundations of yarn-strength and yarn-extension. Part III--The clinging power of cotton. Textile Institute Journal v.21, no.11, Nov. 1930, p.T511-T523. (Published at 16 St. Mary's Parsonage, Manchester, England.)

"The present paper describes tests to determine the clinging power of certain standard Indian cottons which had given spinning test results that were somewhat unexpected in view of their other fibre-properties. The method used was a modification of Adderley's, and consisted of pulling a group of 10 fibres of a cotton between pads made from parallelised fibres of the same cotton and subjected to a known pressure; the pads were $\frac{3}{8}$ in. long; the force was applied and measured by means of an O'Neill's fibre-strength tester. The clinging power is taken to be the force required to pull the 10 fibres through the pads under a known pressure. The various sources of errors are discussed and the conclusion reached that these are not serious."

Schiefer, H. F., and Best, A. S. A portable instrument for measuring air permeability of fabrics. Bureau of Standards Journal of Research, v.6, no.1, Jan. 1931, p.51-58. (Published at Washington, D.C.)

Technology of Manufacture.

Bissonnette, A. F. Roving twist standard. The Melliand Textile Monthly, v.2, no.10, Jan.1931, p.1294-1297. (Published by The Melliand, Inc., Woolworth Building, New York City)

"The object of this article is to discuss the present formulas for standard roving twist and to submit a new one, which is empiric but more reliable."

The bleaching of cotton and rayon materials. V.-
Kiering of cotton fabrics. The Textile Weekly,
v.6, no.147, Dec.26, 1930, p.413. (Published at
49 Deansgate, Manchester, England)

British cotton industry research association. The
nature of the dust in the air of cotton card rooms.
Textile Institute Journal, v.21, no.12, Dec. 1930,
p.T595-T604. illus. (Published at 16 St. Mary's
Parsonage, Manchester, England.)

"This communication is an abridgment of a report
made in April 1928...to the Federation of Master
Cotton Spinners' Associations, and based mainly
on investigations by Messrs. T. B. Bright, E. Rhodes,
and F. Summers...The report is divided into three
parts. Part I describes the methods; Part II gives
some account of the results obtained when using
the methods to investigate (a) the buoyancy of the
dust and the effect of ventilation on its suspen-
sion, and (b) the effect of humidity, height of
ceiling and so forth on the dust content; Part III
discusses the composition of the dust from a chemi-
cal and biological standpoint, but does not attempt
to draw any conclusions on health question."-Intro-
duction.

Cotton fabric tents, tarpaulins, and covers.

Commercial Standards Monthly, v.7, no.7, Jan. 1931,
p.208-209. (Published by the U. S. Bureau of Stan-
dards, Washington, D. C.)

"Standardized markings and description of water-
proof treated and untreated commodities approved
by general conference."

Cotton-textile institute, inc. A method of pre-
determining costs in cotton yarn mills. New York
[1930] 47p.

Dawson, J. H. The inclined spindle ring spinning
frame. Textile Mercury, v.83, no.2179, Dec.19,
1930, p.619-621. illus. (Published at 41, Spring
Gardens, Manchester, England.)

"Describing an entirely new spinning process."

Dawson, J. H. A new automatic weft replenishing
motion. Textile Mercury, v.83, no.2176, Nov.28,
1930, p.551. illus. (Published at 20 Mount St.,
Manchester, England.)

Drafting rollers and yarn uniformity. Textile American, v.55, no.1, Jan. 1931, p.16-17. (Published at 440-442 Old South Building, Boston, Mass.)

Hall, A. J. The action of hypobromites on cellulose and its application in testing cotton. American Dyestuff Reporter, v.19, no.22, Dec.22, 1930, p. 787-790, 823-824. Charts. (Published by Howes Publishing Co., 440 Fourth Ave., New York.)

Includes some facts regarding mercerization.

High-speed cone winder. Rotary movement with unlimited speed. The Textile Weekly, v.6, no.149, Jan.9, 1931, p.466-468. illus. (Published at 49 Deansgate, Manchester, England.)

Introduced by the Universal Winding Company.

The inclined mule-spindle ring frame. A new principle of ring spinning produces soft-twisted yarn of mule quality, or better, and claims greatly reduced production costs over mule or present ring frames. The Textile Manufacturer, v.56, no.672, Dec. 1930, p. 448-449. illus. (Published by Emmott and Co., 65, King Street, Manchester, England.)

Mell, C. D. Interesting sources of natural dyestuffs. Textile Colorist, v.52, no.621, Sept. 1930, p.603-605. (Published at Woolworth Building, 233 Broadway, New York)

Describes the teak tree as a source of yellow dye, mangrove cutch from the Philippine Islands, dyes and tans from soymida bark.

Merrill, Gilbert R. Single-process picking affords yarn of equal strength and slightly greater uniformity. Textile World, v.79, no.2, Jan.10, 1931. (Published by Bragdon, Lord & Nagle Co. Inc., Tenth Ave. at 36th St., New York)

Reprinted from the latest issue of the quarterly Bulletin of Lowell Textile Institute, Lowell, Mass.

Also in American Wool & Cotton Reporter, v.45, no.2, Jan.8, 1931, p.17-18. (Published at 530 Atlantic Avenue, Boston, Mass.)

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